

TITLE: VIBRATING SCREEN WITH A LOADING PAN

ABSTRACT OF THE DISCLOSURE

The vibrating screen has a frame, a screen box, two pairs of springs supporting the screen box over the frame and a driven eccentric shaft mounted under the screen box. The vibrating screen is characterized by a loading pan affixed to the upper end of the screen box. The loading pan has a central region over the upper springs such that a flexion of the structural members under the loading pan is minimum. The loading pan is wider than the screen box and has sloped sides forming a funnel on the upper end of the screen box to retain the side portions of a load until most of the central portion has been moved to the screen box. In another aspect, each spring has torsion bushings therein, with a pair of arms joining the torsion bushings and forming an angle pointing toward the lower end of the screen box.